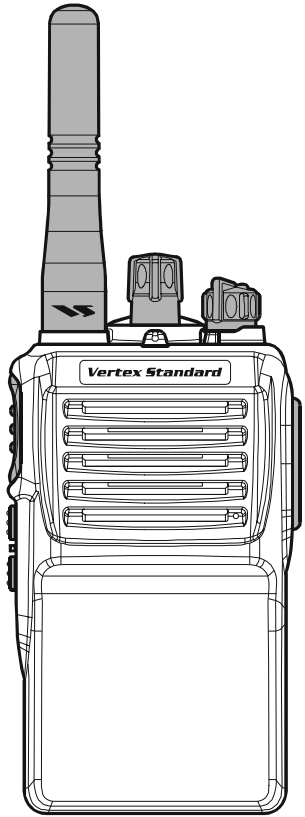

Vertex Standard

VX-351PMR446

(VX-351-EG3J-1)

OPERATING MANUAL

VERTEX STANDARD CO., LTD.

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⚠ IMPORTANT NOTICE ⚠

- **Please read this manual carefully to become familiar with the features of this transceiver.**
- **When transmitting, hold the radio in a vertical position with its microphone 2.5 to 5 cm away from your mouth and keep the antenna at least 2.5cm away from your head.**
- **The radio must be used with a maximum operating duty cycle not exceeding 50 %, in typical Push-to-Talk (PTT) configurations. DO NOT transmit for more than 50 % of total radio use time (50 % duty cycle). Transmitting more than 50 % of the time can cause RF exposure compliance requirements to be exceeded. The radio is transmitting when the red LED on the top of the radio is illuminated. You can cause the radio to transmit by pressing the PTT button or by using the VOX headset, model VC-25.**
- **Always use the FNB-V95LI or FNB-V96LI Lithium-Ion Battery.**
- **Perform the battery charging where the ambient temperature range +10 °C to +40 °C. Charge out of this range could cause damage to the battery pack.**
- **Battery Pack shall not be exposed to excessive heat such as sunshine, fire or the like.**
- **Always use Vertex Standard authorized accessories.**
  Vertex Standard shall not be liable for any damage or accidents such as fire, leakage or explosion of batteries, etc., caused by the malfunction of non-Vertex Standard accessories.
- **This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as occupational use only, meaning it must be used only during the course of employment by individuals aware of hazardous, and the ways to minimize such hazardous. This radio is not intended for use by the General Population in an uncontrolled environment.**

⚠ Important Notice for the Li-ion Battery Pack ⚠

CONTAINS LITHIUM-ION BATTERY.
MUST BE RECYCLED OR DISPOSED OF PROPERLY.

- **Never short-circuit the connection terminals on the battery or charger!**
- **Do not attempt to open the battery pack, as personal injury or damage to the battery pack could occur if a cell or cells become accidentally short-circuited.**
- Before using a battery pack for the first time, charge it completely. Do not attempt charge a pack with the incorrect charger, as this can damage or shorten the life of the pack.
- When a battery pack is not used for a long time, please remove it from the transceiver. Also, while in storage, the charge will drain slightly over time and the battery should be recharged 50% each six months.
- When carefully maintained, a pack should be useful for about 300 charge/discharge cycles.
- The following abuses can shorten the useful life of the battery,and should be avoided:
  - ✗ Exceeding the specified temper-ature limits;
  - ✗ Overcharging with an incorrect charger, or charging for too long;
  - ✗ Shorting the terminals, or using the pack with equipment not designed for it;
  - ✗ Reversing charge polarity. Use only the proper charger. If this is tampered with or another charger is used, permanent damage may result;
  - ✗ Submersing the battery in water, or attempting to open the battery casing.
- After storage, the battery should be returned to room temperature before use. It may first function at reduced capacity, but should return to full capacity after several complete charge/discharge cycles.
- Replace the pack if charge life becomes very short.

Disposal of your Electronic and Electric Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Electronic and Electric Equipment should be recycled at a facility capable of handling these items and their waste byproducts.

In EU countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.

Attention in Case of Use

This transceiver works on frequencies which are not generally permitted.
For frequency allocation, apply for a licence at your local spectrum management authority.
For actual usage contact your dealer or sales shop in order to get your transceiver adjusted to the allocated frequency range.

List of the practicable area					
AUT	BEL	BGR	CYP	CZE	DEU
DNK	ESP	EST	FIN	FRA	GBR
GRC	HUN	IRL	ITA	LTU	LUX
LVA	MLT	NLD	POL	PRT	ROU
SVK	SVN	SWE	CHE	ISL	LIE
NOR					

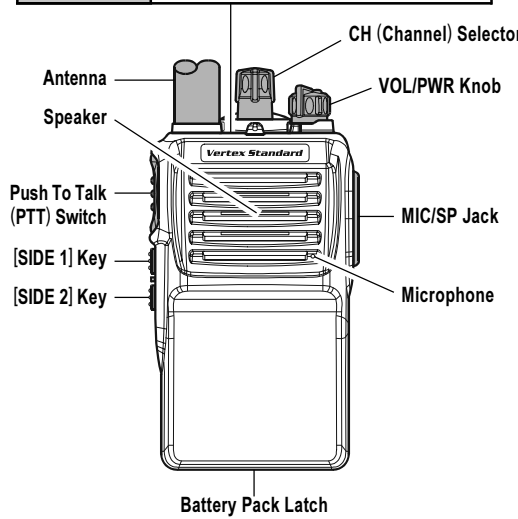
Operating Temperature Range

Operation: –25 °C to +55 °C
Battery Charging: +10 °C to +40 °C

Controls & Connectors

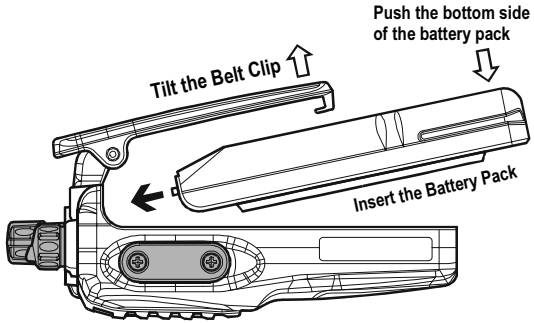
LED Indicator

Glows Green	SCAN or FM-SCAN is activated (or Monitor on)
Blinking Green	Busy Channel (or SQL off)
Glows Red	Transmitting
Blinking Red	Battery Voltage is Low
Glows Yellow	Sub-Audio Set Mode



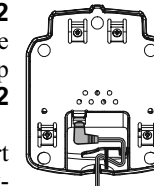
BATTERY PACK INSTALLATION AND REMOVAL

❒ To install the battery, hold the transceiver with your left hand, so your palm is over the speaker and your thumb is on the top of the belt clip. Insert the battery pack into the battery compartment on the back of the radio while tilting the Belt Clip outward, then push the bottom side of the battery pack until the battery pack locks with the Battery Pack Latch.

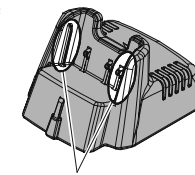


❒ To remove the battery, turn the radio off and remove any protective cases. Slide the Battery Pack Latch on the bottom of the radio, then slide the battery downward and out from the radio while holding the Belt Clip.

BATTERY CHARGE



1. Insert the DC plug from the **PA-42** AC Adapter into the DC jack on the bottom side of the **CD-34** Desktop Rapid Charger, then plug the **PA-42** AC Adapter into the AC line outlet.
2. Turn the transceiver "off", then insert the transceiver into the **CD-34** Desktop Rapid Charger while aligning the slots of the battery pack with the guides in the nest of the **CD-34**; refer to the illustration below for details on proper positioning of the battery pack.
3. If the transceiver is inserted correctly, the LED indicator will glow red. A fully-discharged pack will be charged completely in approximately 2 hours.
4. The LED indicator will change to green when charging is nearing completion. The battery pack becomes fully charged approximately 30 minutes later.
5. When charging is completed, remove the transceiver from the **CD-34** Desktop Rapid Charger, and unplug the **PA-42** AC Adapter from the AC line outlet.



Align the slots of the battery pack with the guides in the nest of the **CD-34** Desktop Rapid Charger.

Important Notes!

- Do not connect an improper AC Adapter to the **CD-34** Desktop Rapid Charger. Use only the supplied **PA-42** AC Adapter.
- Disconnect the transceiver from the **CD-34** Desktop Rapid Charger, and unplug the **PA-42** AC Adapter from the AC line outlet, when charging is completed.
- The **PA-42** AC Adapter and/or **CD-34** Desktop Rapid Charger will generate a moderate amount of heat during the charging process. This is a normal condition.
- The **PA-42** AC Adapter and **CD-34** Desktop Rapid Charger is designed for charging only, and is not designed for operation (transmission/reception) of the transceiver.
- Periodically wipe the charging terminals in the nest of the **CD-34** Desktop Rapid Charger, using a dry cloth, to ensure good connections between the charger and battery.

Caution!!

- When charging a battery pack alone (not attached to the transceiver), do not allow any metal object to short the terminals on the battery pack.
- Do not allow any metal objects to short the terminals in the nest of the **CD-34** Desktop Rapid Charger, as a short-circuit could cause overheating of the charger circuitry.

Caution!

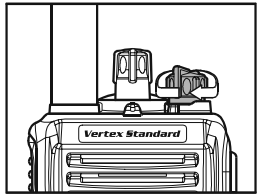
Do not attempt to open any of the rechargeable Lithium-Ion packs, as they could explode if accidentally short-circuited.

LOW BATTERY INDICATION

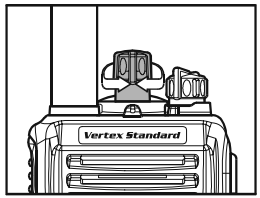
As the battery discharges during use, the voltage gradually becomes lower. When the battery voltage becomes to low, substitute a freshly charged battery and recharge the depleted pack. When the battery voltage becomes to low, the LED indicator on the top of the radio will blink ***red*** and an alert beeper will sound.

OPERATION QUICK START

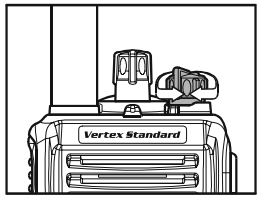
❒ Turn the top panel's **VOL/PWR** knob clockwise to turn on the radio on.



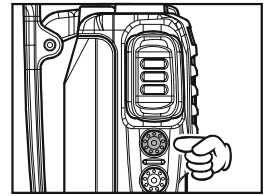
❒ Turn the top panel's **CH** selector knob to choose the desired operating channel.



❒ Rotate the **VOL/PWR** knob to set the volume level. If no signal is present, press and hold in the [**SIDE 1**] key (default: [**MONI/SQL OFF**] key) for more than one second; background noise will now be heard, and you may use this to set the **VOL/PWR** knob for the desired audio level.

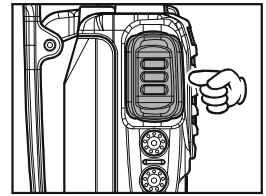


❒ Press and hold in the [**SIDE 1**] key (default: [**MONI/SQL OFF**] key) for more than one second (or press the key twice) to quiet the noise and resume normal (quiet) monitoring.

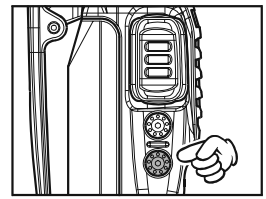


❒ To transmit, monitor the channel and make sure it is clear.

❒ To transmit, press and hold in the **PTT** switch. Speak into the microphone area of the front panel grille (lower right-hand corner) in a normal voice level. To return to the Receive mode, release the **PTT** switch.



❒ Press the [**SIDE 2**] key (default: [**SCAN**] key) to start scanning. If and when the scanner encounters a signal strong enough to open the squelch, the scanner will remain halted for as long as there is carrier present on the channel. After the carrier drops at the end of the other station's transmission, scanning will resume.



❒ If a Speaker/Microphone is available, remove the plastic cap and its two mounting screws from the right side of the transceiver, then insert the plug from the Speaker/Microphone into the **MIC/SP** jack; secure the plug using the screws supplied with the Speaker/Microphone. Hold the speaker grille up next to your ear while receiving. To transmit, press the **PTT** switch on the Speaker/Microphone, just as you would on the main transceiver's body.

Note: Save the original plastic cap and its mounting screws. They should be re-installed when not using the Speaker/Microphone.

VX-351PMR446 DEFAULT SETTING

CHANNEL	FREQUENCY NO. (FREQUENCY)	CTCSS/DCS (TONE NO.)
1	1 ch (446.00625 MHz)	DCS 114 (76)
2	2 ch (446.01875 MHz)	DSC 115 (77)
3	3 ch (446.03125 MHz)	DCS 023 (60)
4	4 ch (446.04375 MHz)	DCS 025 (61)
5	5 ch (446.05625 MHz)	DCS 026 (62)
6	6 ch (446.06875 MHz)	DCS 071 (72)
7	7 ch (446.08125 MHz)	DCS 072 (73)
8	8 ch (446.09375 MHz)	DCS 073 (74)
9	1 ch (446.00625 MHz)	DCS 152 (86)
10	2 ch (446.01875 MHz)	DCS 155 (87)
11	3 ch (446.03125 MHz)	DCS 156 (88)
12	4 ch (446.04375 MHz)	DCS 162 (89)
13	5 ch (446.05625 MHz)	DCS 165 (90)
14	6 ch (446.06875 MHz)	DCS 205 (93)
15	7 ch (446.08125 MHz)	DCS 212 (94)
16	8 ch (446.09375 MHz)	DCS 223 (95)

The **VX-351PMR446** provide [**SIDE 1**] and [**SIDE 2**] keys. These "Programmable" keys functions can be customized (set to other functions) via the **CE95** Programming Software. The possible Programmable key features are illustrated below, and their functions are explained below. For further details, contact your Vertex Standard dealer.

For future reference, check the box at the right to each function that has been assigned to the Programmable key on your particular radio, and keep it handy.

FUNCTION	PROGRAMMABLE KEY (PRESS / PRESS AND HOLD)	
	[SIDE 1] KEY	[SIDE 2] KEY
Monitor	/	/
SQL Off	/	/
Scan	/	/
Follow-Me Scan	/	/
Encryption	/	/

PROGRAMMABLE KEY DEFAULT SETTING

	[SIDE 1]	[SIDE 2]
PRESS KEY	Monitor	Scan
PRESS & HOLD KEY	SQL Off	—

MONITOR

Press (or Press and hold) the assigned **Programmable** key to disable the CTCSS- and DCS-controlled squelch; the LED indicator on the top of the transceiver will glow green.

SQL OFF

Press (or Press and hold) the assigned **Programmable** key to hear background noise (unmute the transceiver); the LED indicator on the top of the transceiver will blink green.

SCAN

The Scanning feature is used to monitor multiple channels programmed into the transceiver. While scanning, the transceiver will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

❒ **To activate scanning:**
Press (or Press and hold) the assigned **Programmable** key.
The scanner will search the channels, looking for active ones; it will pause each time it finds a channel on which someone is speaking.

❒ **To stop scanning:**
Press (or Press and hold) the assigned **Programmable** key again.

FOLLOW-ME SCAN

The "Follow-Me" Scan feature checks a User-assigned Priority Channel regularly as you scan other channels. Thus, if only Channels 1, 3, and 5 (of the 8 available channels) are designated for "Scanning," the user may nonetheless assign Channel 2 as the "User-assigned" Priority Channel via the "Follow-Me" feature.

To activate "Follow-Me" scanning, first select the channel you want to designate as the "User-Assigned Priority Channel" and press (or press and hold) the assigned **Programmable** key. When the scanner stops on an "Active" channel, the User-assigned Priority Channel will automatically be checked every few seconds; if activity is found on the User-assigned Priority Channel, the radio will switch between it and the Dealer-Assigned Priority Channel, if any.

ENCRYPTION

Pressing (or Pressing and holding) the assigned **Programmable** key toggles the scrambler "on" and "off" when the optional **FVP-36** Encryption unit is installed.

You may set the following features in each operating channel via the **CE95** Programming Software independently.

DIAL SCAN

When set the **CH** selector knob to the channel which a Dial Scan feature was assigned, the scanner begins automatically.

PRIORITY CHECK

The Priority Check feature checks a User-assigned Priority Channel every five seconds, when the scanner stopped on the channel except the User-assigned Priority Channel.

TIME-OUT TIMER (TOT)

The TOT feature provides a safety switch, which limits transmission time to a pre-programmed value. This will conserve battery power by limiting the length of transmissions. When your transmission time is within 10 seconds of the Time-Out Timer expiration, an alert bell will provide an audible warning from the speaker.

BUSY CHANNEL LOCK-OUT (BCLO)

The BCLO feature prevents the radio's transmitter from being activated if a signal strong enough to break through the "noise" squelch is present.

ARTS (AUTO RANGE TRANSPOND SYSTEM)

This system is designed to inform you when you and another ARTS-equipped station are within communication range.

During ARTS operation, your radio automatically transmits for about 1 second every 55 seconds in an attempt to shake hands with the other station.

If you are out of range for more than 2 minutes, your radio senses that no signal has been received, three short beeper will sound. If you subsequently move back into range, as soon as the other station transmits, a short beeper will sound.

POWER SAVE

The Power Save feature puts the transceiver to sleep for a time interval, periodically "waking it up" to check for activity. If somebody is talking on the channel, the transceiver will remain in the "active" mode, then resume its "sleep" cycles when the signal drops. This feature significantly reduces quiescent channel battery drain.

Supplied Accessories

Li-ion Battery Pack	**FNB-V95LI** (7.4V, 1800mAh)
Rapid Charger	**CD-34**
AC Adapter	**PA-42C** or **PA-42U**
Belt Clip	

Optional Accessories

FNB-V95LI	7.4V, 1800mAh Li-ion Battery Pack
FNB-V96LI	7.4V, 2000mAh Li-ion Battery Pack
MH-45$_{\text{B4B}}$	Speaker/Microphone
MH-360S	Speaker/Microphone
MH-450S	Speaker/Microphone
MH-37$_{\text{A4B}}$	Earpiece/Microphone
VC-25	VOX Headset
CD-34	Rapid Charger
PA-42C/U	AC Adapter
VAC-6300	6-Unit Multi Charger
PA-41	AC Adapter (for VAC-6300)
VCM-2	Vehicle Charger Mounting Bracket
DCM-1	Desktop Charger Mounting Bracket
FVP-36	Encryption Unit (Voice Inversion Scrambler)
CLIP-18	Belt Clip
CE95	Programming Software
FIF-10A	USB Interface
CT-28	RS-232C PC Programming Cable (6-pin DIN ↔ 3.5ϕ, 4-pin plug)
CT-29	RS-232C PC Programming Cable (D-SUB 9-pin ↔ 6-pin DIN)
CT-106	PC Programming Cable (for FIF-10A) (8-pin DIN ↔ 3.5ϕ, 4-pin plug)

SUB-AUDIO SET MODE (PROGRAMMING THE CTCSS TONE FREQUENCY / DCS CODE)

You may change the CTCSS tone frequency or DCS code which is memorized in the operating channel, if you desired.

1. Turn the radio "off" by rotating the top panel's **VOL/ PWR** knob fully counterclockwise (into the click-stop).
2. Press and hold in the **PTT** switch and [**SIDE 1**] key; while holding it in, turn the radio "on" to enter the "Sub-Audio Set Mode". The radio sounds "Tone A". During the "Sub-Audio Set Mode", the LED indicator on the top of the radio will glow "Yellow".
3. Rotate the top panel's **CH** selector knob to select the channel where you want to change the Sub-Audio.
4. Press the **PTT** switch to decide the channel. The radio sounds "Tone B".
   If the selected channel is vacant, the radio will sound Error Beep (Tone C).
5. Rotate the top panel's **CH** selector knob to select channel position equal to LSB (1's place) of tone Table.
   Ch1=1, Ch2=2, ····· Ch9=9, Ch10=0
   When the channel position indicates the preset Sub-Audio, the radio will sound "Tone G".
6. Press the **PTT** switch to decide the LSB, the radio will sound "Tone D".
   If the "Ch11" - "Ch16" is selected, the Sub-Audio will be disabled. The radio sounds "Tone F" and the Sub-Audio Setting of current channel will be finished. In this case, if you want to change Sub-Audio for another channel, repeat the step 3.
7. Select channel position equal to MSB (100's and 10's places) of tone Table.
   Ch1=1, Ch2=2, ····· Ch9=9, Ch10=10,
   Ch11=11, ····· Ch15=15, Ch16=16
   When the channel position indicates the preset Sub-Audio, the radio will sound "Tone G".
8. Press the **PTT** switch to decide the MSB code, the radio will sound "Tone E".
   The table number "164" to "169" will become No-Tone Setting. (If No-Tone is needed on the channel then it is recommended to set LSB as No-Tone.)
9. Press the **PTT** switch again to finish the Sub-Audio Setting of current channel. The radio will sound "Tone E"
10. The Sub-Audio Setting of current channel will be finished. If you want to change Sub-Audio for another channel, repeat steps 3 - 8.
11. To end of the "Sub-Audio Set Mode", turn the radio "off" or press and hold the [**SIDE 1**] or [**SIDE 2**] key.
12. Turn the radio "on" again, the radio will reset and restart. The radio will sound "Tone H".

Sub-Audio Set Mode (Programming the CTCSS Tone Frequency / DCS Code)

Example 1: To set the 67.0 Hz CTCSS Tone (Tone No: 10):

1) Set the **CH** selector knob to "**CH10**" position ("10" representing "0").
2) Press the **PTT** switch. The radio sounds "Tone B".
3) Set the **CH** selector knob to "**CH1**" position.
4) Press the **PTT** switch. The radio sounds "Tone B".
5) Press the **PTT** switch again. The radio sounds "Tone E".

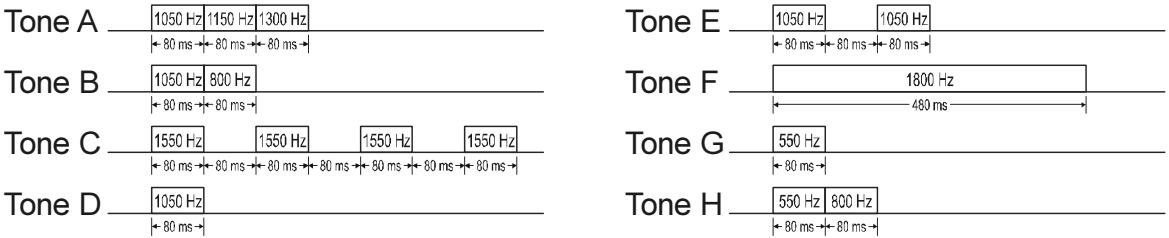
Example 2: To set the DCS Tone 311 (Tone No: 112):

1) Set the **CH** selector knob to "**CH2**" position.
2) Press the **PTT** switch. The radio sounds "Tone B".
3) Set the **CH** selector knob to "**CH11**" position.
4) Press the **PTT** switch. The radio sounds "Tone B".
5) Press the **PTT** switch again. The radio sounds "Tone E".

Tone Table

Tone No.	System	Frequency	Tone No.	System	Freq./Code	Tone No.	System	Code	Tone No.	System	Code	Tone No.	System	Code	Tone No.	System	Code
10	CTCSS	67.0 Hz	36	CTCSS	162.2 Hz	62	DCS	026	88	DCS	156	114	DCS	325	140	DCS	506
11	CTCSS	69.3 Hz	37	CTCSS	167.9 Hz	63	DCS	031	89	DCS	162	115	DCS	331	141	DCS	516
12	CTCSS	71.9 Hz	38	CTCSS	173.8 Hz	64	DCS	032	90	DCS	165	116	DCS	332	142	DCS	523
13	CTCSS	74.4 Hz	39	CTCSS	179.9 Hz	65	DCS	036	91	DCS	172	117	DCS	343	143	DCS	526
14	CTCSS	77.0 Hz	40	CTCSS	186.2 Hz	66	DCS	043	92	DCS	174	118	DCS	346	144	DCS	532
15	CTCSS	79.7 Hz	41	CTCSS	192.8 Hz	67	DCS	047	93	DCS	205	119	DCS	351	145	DCS	546
16	CTCSS	82.5 Hz	42	CTCSS	203.5 Hz	68	DCS	051	94	DCS	212	120	DCS	356	146	DCS	565
17	CTCSS	85.4 Hz	43	CTCSS	210.7 Hz	69	DCS	053	95	DCS	223	121	DCS	364	147	DCS	606
18	CTCSS	88.5 Hz	44	CTCSS	218.1 Hz	70	DCS	054	96	DCS	225	122	DCS	365	148	DCS	612
19	CTCSS	91.5 Hz	45	CTCSS	225.7 Hz	71	DCS	065	97	DCS	226	123	DCS	371	149	DCS	624
20	CTCSS	94.8 Hz	46	CTCSS	233.6 Hz	72	DCS	071	98	DCS	243	124	DCS	411	150	DCS	627
21	CTCSS	97.4 Hz	47	CTCSS	241.8 Hz	73	DCS	072	99	DCS	244	125	DCS	412	151	DCS	631
22	CTCSS	100.0 Hz	48	CTCSS	250.3 Hz	74	DCS	073	100	DCS	245	126	DCS	413	152	DCS	632
23	CTCSS	103.5 Hz	49	CTCSS	159.8 Hz	75	DCS	074	101	DCS	246	127	DCS	423	153	DCS	654
24	CTCSS	107.2 Hz	50	CTCSS	165.5 Hz	76	DCS	114	102	DCS	251	128	DCS	431	154	DCS	662
25	CTCSS	110.9 Hz	51	CTCSS	171.3 Hz	77	DCS	115	103	DCS	252	129	DCS	432	155	DCS	664
26	CTCSS	114.8 Hz	52	CTCSS	177.3 Hz	78	DCS	116	104	DCS	255	130	DCS	445	156	DCS	703
27	CTCSS	118.8 Hz	53	CTCSS	183.5 Hz	79	DCS	122	105	DCS	261	131	DCS	446	157	DCS	712
28	CTCSS	123.0 Hz	54	CTCSS	189.9 Hz	80	DCS	125	106	DCS	263	132	DCS	452	158	DCS	723
29	CTCSS	127.3 Hz	55	CTCSS	196.6 Hz	81	DCS	131	107	DCS	265	133	DCS	454	159	DCS	731
30	CTCSS	131.8 Hz	56	CTCSS	199.5 Hz	82	DCS	132	108	DCS	266	134	DCS	455	160	DCS	732
31	CTCSS	136.5 Hz	57	CTCSS	206.5 Hz	83	DCS	134	109	DCS	271	135	DCS	462	161	DCS	734
32	CTCSS	141.3 Hz	58	CTCSS	229.1 Hz	84	DCS	143	110	DCS	274	136	DCS	464	162	DCS	743
33	CTCSS	146.2 Hz	59	CTCSS	254.1 Hz	85	DCS	145	111	DCS	306	137	DCS	465	163	DCS	754
34	CTCSS	151.4 Hz	60	DCS	023	86	DCS	152	112	DCS	311	138	DCS	466	—	—	—
35	CTCSS	156.7 Hz	61	DCS	025	87	DCS	155	113	DCS	315	139	DCS	503	—	—	—

BEEP TONE


Tone A
1050 Hz
1150 Hz
1300 Hz
80 ms
80 ms
80 ms
Tone B
1050 Hz
800 Hz
80 ms
80 ms
Tone C
1550 Hz
1550 Hz
1550 Hz
1550 Hz
80 ms
80 ms
80 ms
80 ms
80 ms
80 ms
80 ms
Tone D
1050 Hz
80 ms
Tone E
1050 Hz
1050 Hz
80 ms
80 ms
80 ms
Tone F
1800 Hz
480 ms
Tone G
550 Hz
80 ms
Tone H
550 Hz
800 Hz
80 ms
80 ms

NOTE

NOTE

Vertex Standard

Declaration of Conformity

We, Yaesu UK Ltd. declare under our sole responsibility that the following equipment complies with the essential requirements of the Directive 1999/5/EC.

Type of Equipment:	FM Transceiver
Brand Name:	VERTEX STANDARD
Model Number:	VX-351-EG3J-1
Manufacturer:	Vertex Standard Co., Ltd.
Address of Manufacturer:	4-8-8 Nakameguro Meguro-Ku, Tokyo 153-8644, Japan

Applicable Standards:
This equipment is tested and conforms to the essential requirements of directive, as included in following standards.

Radio Standard:	EN 300 296-2 V1.1.1
EMC Standard:	EN 301 489-01 V1.6.1 EN 301 489-05 V1.3.1
Safety Standard:	EN 60065: 2002

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company: Yaesu UK Ltd.
Address: Unit 12, Sun Valley Business Park, Winnall Close,
Winchester, Hampshire, SO23 0LB, U.K.

Vertex Standard

VERTEX STANDARD CO., LTD.
4-8-8 Nakameguro, Meguro-Ku, Tokyo 153-8644, Japan

VERTEX STANDARD
US Headquarters
10900 Walker Street, Cypress, CA 90630, U.S.A.

YAESU UK LTD.
Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.

VERTEX STANDARD HK LTD.
Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road,
Kwun Tong, Kowloon, Hong Kong

VERTEX STANDARD (AUSTRALIA) PTY., LTD.
Normanby Business Park, Unit 14/45 Normanby Road
Notting Hill 3168, Victoria, Australia

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